

Attorney Ref. 18920.0040

THE CLAIMS

- 1 1. (previously presented) A biped toy that can walk on two feet, comprising:
2 symmetrically disposed leg portions and arm portions moved by a driving means in the
3 interior of a torso,
4 wherein said driving means is a motor or a power spring,
5 wherein foot portions to be rotated in a rolling direction of a main body of the toy are
6 coupled to said leg portions, and said leg portions to be driven in forward, rearward, up and
7 down directions of said toy main body are disposed within the lower of said torso,
8 wherein first link members of said leg portions are driven by making circular motion
9 while maintaining a mounting angle against said torso in the interior of said leg portions and said
10 torso, and second link mechanisms of said foot portions comprise a link member which is driven
11 by moving up-and-down,
12 wherein a shift of weight of said toy main body is taken by positioning a center of gravity
13 of said toy main body on a first leg portion,
14 wherein a step forward by a second leg portion is taken,
15 wherein said foot portions with the shift of weight of said toy main body is driven toward
16 the rolling direction, and
17 whereby repeating a cycle of movement which shifts the center of gravity between said
18 first and second leg portions, said toy main body can continuously walk.
- 1 2. (previously presented) A biped toy that can walk on two feet as set forth in claim 1,
2 wherein the first link member is supported by a rotatable cam and two assistant cams
3 which are rotatable with and following the driving of the first member by said rotatable cam, and

Attorney Ref. 18920.0040

whereby a trace of movement of the first link member in profile of said main body can make circular movement with remaining a mounting angle against said toy main body.

3. (new) A biped toy that can walk on two feet, comprising:

symmetrically disposed leg portions moved by a motor disposed in the interior of a torso, wherein foot portions to be tilted in the left and right directions of said biped toy are attached to said leg portions, and said leg portions to be moved in forward, rearward, up-and-down directions of said biped toy are disposed therein,

wherein cams are disposed in an output shaft of said motor, and the assistant cams are rotatably mounted by rotation of said cams,

wherein a first link member of one of said leg portions is driven by a rotation of said assistant cams against said torso in the interior of said leg portions, and a second link member is driven by a rotation of said cams in the up-and-down directions, and a third link member attached to said foot portions is driven in the up-and-down directions by moving of said second link member,

wherein said foot portions with a shift of weight of said biped toy is driven toward a rolling direction, and

wherein repeating a cycle of movement which shifts the center of gravity between left and right of said leg portions, said biped toy can continuously walk.

4. (new) A biped toy that can walk on two feet as set forth in claim 3, wherein symmetrically disposed arm portions moved by said motor, and said arm portions are attached to one of said assistant cams through outside of said biped toy, and wherein said arm portions are driven by rotation of said assistant cams.

Attorney Ref. 18920.0040

- 1 4. (new) A biped toy that can walk on two feet as set forth in claim 3, wherein
- 2 symmetrically disposed arm portions moved by said motor, and said arm portions are attached to
- 3 one of said assistant cams through outside of said biped toy, and wherein said arm portions are
- 4 driven by rotation of said assistant cams.